224 /101 cont./
time to discharge the weapon. The most coveted animals are
[251] the deer, the danta, the paca, and the wild pig. When there
[439] is a great abundance of game, the meat is smoked at the fire,
[437] preserved, and used in barter for proportionate products through the rubber workers.

226 Perhaps the products obtained by fishing constitute the
• 146 most important source of animal proteins in the Tukano alimentation. Even though it is possible to do without meat, the presence of fish in the daily diet of the Tukano Indian is indispensable.

226 In fishing, the native uses traps of various shapes and sizes, the use of which depends on the size of the river or stream and of the fish sought. The barbasco is also used. Since the arrival of the Creole in the region, the fishhook has been introduced. The fishhook is tied to a branch and left to remain in the water without the personal vigilance of the native, who returns hours later to check his different traps and the various fishhooks that
[178] he has left along the river. The most commonly used bait is a fruit, but pieces of sardines are also used.

231 /102/ A custom little practiced at present is fishing by means of small arrows shot with bows of a proportionate size.

The Tukano Indians like very much to have domesticated animals in their houses, or malocas. They have monkeys, birds, dogs, etc. They love and take care of these animals as if they were their own children, and to feed them when they are small, the
231 native first chews the food before giving it to the animal to eat.
262 Every maloca has a chicken yard nearby, although the chickens
[439] are not used in the native alimentation, but for barter with the
[437] rubber workers. The egg of the chicken does not form part of the diet of the Tukano Indian. Worms and ants complement the native alimentation.

342 The Tukano maloca is of rectangular plan with a two-sided roof that does not rest on walls, but extends to the ground. The front and back sides are closed with walls of plaited straw and constitute the principal and secondary façades, respectively.

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visitor. On the other hand, the leaf-cutter ant is a specialist on clothing. I was once covered by a swarm of these ants while asleep. When I had carefully removed the last of them I was left with but a leather belt and a few tatters of trousers and shirt.

The anopheles mosquito is generally absent in the Cuduiarí region where I did my field work. On the whole, the health of the Cuduiarí Indians is good. Carate (*purú*), a skin pigment disorder apparently of spirochete origin, common everywhere else in the Northwest Amazon, was far less in evidence on the Cuduiarí. Children suffered from worms and other intestinal parasites but infant mortality was not particularly high. There were no epidemics during my stay. The recollections of the Indians about serious illness go back to the 1918 influenza epidemic that apparently ravaged the native populations in the region. Women, in particular, suffered from the painful purulent conjunctivitis, which they attributed to insect molestation in their manioc gardens. The bloated abdomens of children whose diet is too generous with carbohydrate and deficient in protein is a common sight along the Vaupés, but is less evident on the Cuduiarí, where native life and diet is still almost intact. As for the Cuduiarí itself, the people at the mouth of the river, the higher ranking *Hehénewa* subs, seemed generally more sturdy, vigorous, and aggressive than the Indians who lived upstream.

Dr. Hamilton Rice, who explored the Vaupés in 1907–08, observed that the most physically powerful Indians came from the Cuduiarí. He noted men who were six feet tall and over, strongly built with thick arms and powerful torsos. Actually somatological variability is considerable on the Cuduiarí, ranging from marked mesomorphy to moderate ectomorphy. But this observation of mine is not based on measurements. Dr. Rice (1910) has published a physical description of the Cubeo based upon anthropometric observations. I quote from it:

> Their color is an olive brown corresponding to No. 4 of Broca's scale and seems invariable, a conclusion based on a comparison of the scale with many hundreds of subjects on parts of the cuticle least exposed to sun and pigmented decoration. The eye is dark, palpebral fissure narrow, not oblique, pointed at its external aspect, and the upper lid so heavy at times as to suggest the puffiness of oedema; but the eye by no means conforms invariably to so Mongolian a criterion, closely resembling the European eye in many other cases. The hair is black, lanky, coarse in the male, fine and glossy in the female. The faces are escutcheon-shaped and hairless, the chins rounded and receding, noses from straight and busque to hooked and Chinese flat types, region of cheek bones flat, lower lips large and inclined to turn slightly downward. The ears are not large, lobes absent or slightly devel-

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621 614 582 571 the men who are drawn into the sibling group. The position of a girl resident in an alien sib depends upon whether she has a brother. If she has a brother, his associates, who regard him in a brotherly way, will probably respect his sister as one of their own. If she has no brothers in the community she has still to overcome the reluctance of men to take a wife from nearby. This, too, is no minor obstacle, since an orthodox marriage must ceremonialize the tearing away of a woman from her own community.

THE COMMUNITY OF THE RIVER

361 614 554 The river forms a wider community of related sibs. With some exceptions the sibs have aligned themselves along a river on the basis of degree of closeness and of rank. Sibs that have segmented from a parental sib ordinarily occupy an adjacent site. The river is the most important territory. It is a highway and a link between related sibs, [823] the source of ancestral power, and the economic zone of the men, fish [146] being the main source of animal protein. Even most land animals [224] are hunted along the river banks.

361 823 The orientation of the Cubeo is toward the river and not toward the forest. Whereas the forest is undifferentiated terrain, the rivers are known to every turn and outcrop of rock or other feature. The river is the source of the ancestral powers, of benefits as well as of dangers. The forest is a source mainly of dangers. The river is literally and symbolically a binding thread for the people. It is a source [103] of emergence and the path along which the ancestors had traveled. It contains in its place names genealogical as well as mythological references, the latter at the petroglyphs in particular. For these reasons of 361 sentiment and of symbolic association as well as because of the clear 614 economic value of the river – hunting as well as fishing – the Cubeo 615 have cause to feel that those living along the same river should be people of common descent and, therefore, of common exogamic grouping. It is not accident but strong intent that has grouped the phratries along the same river. Those who join a river will accept membership in a phratry. On the other hand, it is accident that has interrupted the sib homogeneity of the rivers. The *Hürüwd* sib is an intruder on the Cuduiarí River and belongs more properly on the Querarí. It is now the only large alien group on the river. Since it is an established affinal sib it cannot be incorporated into the Cuduiarí phratry as were the apparently alien *Bahükiwa*. But the *Hürüwd* are drawn into the round of drinking parties and so have slid into what is a pattern of intraphratry activity. Here again we have an example

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every turn and landmark of the waterways, their utilization of forest products is also extensive. From the forest they derive mainly raw materials for construction: woods, fibers, and leaves for roof thatching; and some food produce: wild fruits and berries, ants and grubs. Forest foods are supplementary and minor contributions to the diet. In a sense, game are riverine too because they are hunted along water courses. Only occasionally do hunters enter the forests on foot. They prefer to go by canoe, entering the smaller *caños* to catch animals as they come to drink. Hunting is important; the flesh of game animals – the tapir in particular – is highly appreciated and never fails to add a festive note to a meal. On balance, however, it is fish and other water creatures that furnish the main source of animal protein to the diet.

Fishing is the daily masculine routine; hunting is spasmodic, undertaken according to circumstance, as when someone has observed a herd of wild peccary or fresh tapir dung. As a break in the monotony of everyday work, and when the appetite has become jaded with fish, a hunting party is an enlivening experience.

The Indians do not complain about the corner of nature they occupy. They recognize and accept periodicity, times of glut and times of scarcity. Abundance is pleasing to them and scarcity does not alarm them. They expect it to pass. The Indians believe that they are living now in a "golden age." In the past, before they had learned farming and all the techniques of hunting and fishing, they were always on the verge of starvation and lived on tree saps and bark, their traditions say.

Once, while gathering roots, according to one tradition, they came upon the *aünhokü* (manioc) tree, a tree that had leaves of the manioc plant. Manioc tubers fell from it. They had never encountered such a tree and did not know what to do with it. Agouti (*Bwü*) came along eating. An old man asked him what he was eating and Agouti replied he was eating manioc. The manioc at that time had no skin. The tree grew in a clearing with no growth around it. It was guarded by many animals. The old man thought, "What are we going to do?" Then along came *Hübükokü* (a rodent), and he told the people to clear a *chagra* and to plant. "Now, let us cut down the tree," he told them. The old man made a *chagra* and the people cut down the tree with stone axes and puño teeth. When the tree had fallen, all the animals came to eat. The old man then saw that one branch held plantains, another sugar cane, another *turü* (poison), another *pudjü* (a potato-like tuber), and another *yapika* (sweet potato). They then cut off each limb and planted it.